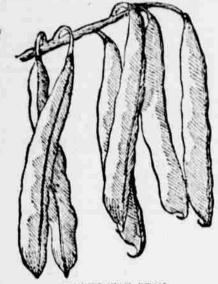
FARM AND GARDEN.

HOW TO MAKE A SATISFACTORY SILO AT SMALL EXPENSE.

All About Kohl Rabi-Condition of Cattle-Important Points in Field and Garden Culture-A New and Early Pole Beau-Agricultural News.

Catalogued among novelties this season in vegetables by seedmen in various sections of the country is the early cluster golden wax pole bean shown in the cut.



GOLDEN WAX BEAN.

Vick says of it: "Its points of excellence are such that we are confident its solvent will be hailed with satisfaction by both market men and private gardeners. It is earlier than any other pole variety, following ten days after the Dwarf Golden Wax. The vine makes a rapid, healthy growth, bearing clusters of three to six large pods of rich golden color. The pods average about eight inches in length and are exceedingly tender and plump. As the flavor is also delicate and the pods stringless, it is not excelled as a snap bean. Unlike many pole beans, it is very productive, continuing to bear, if the pods are picked, until frost. The showy appearonce and cooking qualities of this bean, with its great productiveness, will commend it as an excellent and profitable variety for market."

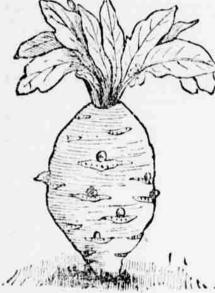
The Cattle of the Country.

The latter part of this winter was severe on the stock in the Atlantic states as far south as the Carolinas. The average by states, however, varies but little from that of last year. According to Statistician Dodge the cattle of the New England states are in generally good condition. The states north and westward from the Ohio to the Missouri rivers show an average condition as regards flesh and freedom from disease. Shelter and food are provided as required, and losses are reduced to a minimum. Condition is high slightly above the average. The cattle on the ranges suffered severely from the inclemency of the winter, and the results of the season will more strongly than ever impress upon herd owners the necessity, even from a financial point of view, of providing sufficient shelter against the dreaded blizzards and of supplying themselves with forage for more winter feed-

The losses of the past year were more severe than usual, owing in some mearange sections. In Georgia and Texas starvation was a fruitful cause of death, while in the latter state the drought produced great loss. Cattle have been comparatively free from serious diseases in most sections. The dreaded pleuro pneumonia has appeared in a number of counties, mostly near large cities in the east, to which the infection is generally traced.

Kohl Rabi, or Turnip Cabbage.

Kohl rabi, sometimes called turnip cabbage, is a vegetable intermediate between the cabbage and the turnip. In Europe it has long been prized, not only as a vegetable for the table, but as an excellent feed for stock. Of recent years our leading seedmen have included several varieties of Kohl rabi in their catalogues, and our cultivators are beginning to test its uses-more especially as a general crop to be used in feeding stock.



KOHL RADI

It is cultivated by sowing the seeds in rows in May, June and July, according to the latitude. Sow in rows eighteen inches apart, and thin out as may be desired. When young the flesh of the vegetable is tender and resembles a fine rutabaga, with less of the turnip flavor. When fully matured it becomes too tough for the table and makes excellent food for stock.

In the Cornfield.

Each year the cultivation of corn grows less deep and ridged. By drilling in the seed and giving shallow culture some of the largest corn yields on record have been obtained. Two common methods now in vogue are drilling and checking. Every farmer understands what drilling in the seed means. In some sections what is known as the "double row system" is

practiced. A plan of drill culture that works well on light, dry upland is termed the "furrow system." The field is prepared in the usual manner, and at planting time is laid off and thrown up into five feet beds, it being designed to plant the furrows between the beds. The main object is to insure the moisture the crop may need. The fertilizer is sown in the bottom of the farrows and mixed with the soil; the grain is then dropped and covered by a core planter or otherwise. The subsequent cultivation is done with shovels or cultivators, which will gradually level down the surface of the beds, returning oranges have been marketed at an aver-

the seil to the corn. adopted in the northern and western 000 boxes is predicted for next year.

states and also common in the valley of Virginia, admits of cultivation in two directions-direct and across-and has the advantage of saving all hoe labor, in addition to giving the plants a better oppor-

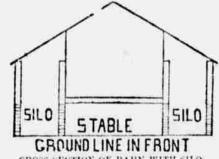
tunity for sun and air. At the east large areas of corn are usually sown in drills, and corn planters and cultivators are adopted. That culture is yearly gaining advocates and the old hill system is gradually disappearing.

Points in Pea Culture.

At the New York Experiment station, during tests made in pea culture, the following points were noted: Permitting the seed of peas to sprout before planting indicated an advantage in the earliness of the first pods of three to eight days. The position of the seeds in the pods did not appear to have any influence on the re-sultant plants. A slight promotion of earliness-three or four days-was noted as the effect of plaching the terminal shoots. Mulching the soil lightly between the rows of peas with straw retarded the attack of mildew very perceptibly. August 12 the mulched rows were free from mildew, while unmulched rows planted at the same time were entirely enveloped.

Barn Silos. The idea is quite prevalent that a silo must be of masonry and very substantial and expensive in order to gain paying results. Such, however, is not the case. Many sites are now being built in the interior of the big barn, using a whole or part of a bay. According to Prairie Former nearly live times as much forage can be put into a given space in the form of ensitinge as can be stored in the same space if the same crop is dried-fifty cubic feet of ensilage weighing a ton-500 feet or more are requisite for a ton of bay.

A Minnesota correspondent in the journal quoted from tells how he took part of one wing of his barn, which is eleven feet wide in the clear, for a silo by way of experiment. There was a stone wall on one side and one end seven feet high, with framework extending eight or nine feet above it. This he studded up with two by six-inch studding, and double boarded with building paper between. This was filled with large ensilage corn elightly frost blitten) cut to one half inch lengths. It was put in pretty fast about half way up, and well tramped. After that it was filled in more slowly, indeed three or



CROSS SECTION OF BARN WITH SILO. four days elapsing between fillings. When all was in, it was left about a week, when it was leveled and in California and Oregon, both being covered with building paper, with boards dle of January. Found it in very good are intimately connected with our interest, condition with the exception of some at and harmonious action is mutually advanthe wall was not perfect. The ensilage in our Declaration of Principles of Action, rayenously, preferring it to almost any general prosperity. sure to the hard winter. Deaths from the ensilage making good butter acknow-the sea-board, or between home producers and consumers, all the productions of our total loss, and were heavy in some of the sea-board of the sea-board or between home producers and consumers, all the productions of our total loss, and were heavy in some of the sea-board or between home producers. total loss, and were heavy in some of the as from any other feed. This farmer has a country. We adopt it as our fixed purpose mill feed. With ensilage, he thinks he may flow freely. can double the number of stock. This eight by eleven feet and difteen feet deep, which he estimates will hold about 170 In our noble Order there is 10 co tons. He will be particular to make the ism, no agrarianism.

Conclusions About Potatoes.

siles air tight.

ing conclusions: 1. Whole potatoes will produce a crop a

are divided.

plant, because it starts with more vigor and produces more and larger potatoes. A large piece is better, on ordinary legitimate transactions, legitimate trade,

soil, than small pieces or eyes. 5 Potatoes with sprouts long enough to break off in planting are not so good as

indicate vigor.

the same hill. 8 The more we investigate the scali the

less we know about it. To Cure a Horse of Kicking.

that is in the habit of kicking, put him in n parrow stall that has both sides thickly or straw so that it will strike his beels, and let horse and sack fight it out. Be horse cannot burt himself. The sack will the sack or anything else."

Agricultural Notes.

According to the national agricultural department's report the general average condition of the wheat crop for the whole country is represented by 88.

The losses of sheep from all causes during the year ending April 1 is 7 per cent of the whole number of sheep, as against an equal percentage during the corre sponding period of 1885-6. Numerically the loss is smaller than in 1885 6, for, although the percentage is the same, it applies to a reduced number, the total number of sheep being now 45,000,000, as conpared with 48,000,000 a year ago.

The losses of swine from all causes through the entire country have been heavy, amounting to nearly 6,000,000 during the year.

A recent estimate places the value of office. the dairy products of this country in 1886 at \$780, 115,688

The Texas legislature has passed a pub-Be band bill giving the farmer a choose to secure a homestead on forty years' credit lies in bitterness of controversy.

at 5 per cent, interest. Recent reports made by Florida orange growers make it appear that during the season of 1886-7 about 1,000,000 boxes of age price of \$2 per box. The outlook now The system of checking corn, largely issaid to be promising and a crop of 1,200,-

Husbandry.

Adopted by the National Grange at its See enth Annual Session held at St. Louis, Mo., February, 1874

PREAMBLE. Profo ndedly impressed with the truth that the National Grange of the United should definitely proclaim to the world its general objects, we hereby make this Declaration of Purposes of the Patrons of Hus-

GENERAL OBJECTS. 1. United by the strong and faithful tie of Agriculture, we mutually resolve to la-bor for the good of cur Order, our country

and mankind 2 We heartily endorse the motto, "In essentials, unity; in non essentials, liberty; in all things, charity,"

SPECIFIC OBJECTS. 3. We shall endeavor to advance our cause by laboring to accomplish the follow-

ing objects: To devel ap a better and higher manhood hance the comforts and attractions of our si ccess. homes, and strengthen our attachment, to our pursuits. To foster mutual understanding and co-operation. To maintain inviolate our laws, and to emulate each other in tering brotherhood by any means at our labor, to hasten the good time coming. To reduce our expenses, both individual and corporate. To buy less and produce more, in order to make our farms self-sustaining. To diversify our crops and crop no more than we cultivate. To condense the weight | bership and position in our Order. of our exports, selling less in the bushel, imploring the continued assistance of and more on hoof and in fleece; less in lint our Divine Master to guide us in our work, of our exports, selling less in the bushel, an I more in warp and woof. To systemize our work, and calculate intelligently on harmonious labor for all future time, to reprobabilities. To discountenance the credit turn by our united efforts to the wisdom, system, the fashion system, and every other justice, fraternity and political purity of system tending to prodigality and bank-

We propose meeting together, talking together, working together, buying together, selling together, and, in general, acting to gether for our mutual protection and advancement, as occasion may require.

We shall avoid litigation as much as possible, by arbitration in the Grange. We shall constantly strive to secure entire harmony, good will, vital brotherhood among ourselves, and to make our order perpetual. We shall earnestly endeavor to suppress personal, local, sectional and national prejudices, all unhealthy rivalry, all selfish ambirion. Faithful adherence to these principles will insure our mental, moral, and social, and material advancement. BUSINESS RELATIONS.

4. For our business interests we desire to bring producers and consumers, farmers and manufacturers, into the most direct and friendly relations possible. Hence we must dispense with a surplus of middlemen, not that we are unfriendly to them, but we do not need them. Their surplus and their exactions diminish our profits.

We wage no aggressive warfare against any other interests whatever. On the contrary, all our ac s, and all our efforts, so far as business is concerned, are not only for the benefit of the producer and consumer, but also for all other interests that tend to bring these two parties into speedy and on top of paper, and after several days economical contact. Hence we hold that four inches of earth was put on. Opened transportation companies of every kind are the silo and commenced feeding the mid- necessary to our success, that their interests the corners, where the boarding joining tageous, keeping in view the first sentence was quite sour, but the cattle ate it that "individual happiness depends upon

We shall therefore advocate for every other feed, and there was an increase in the flow of milk about five per cent. Some State the increase in every practicable way friends who were skeptical in regard to of all facilities for transporting cheaply to farm of 110 acres and has been able to "to open out the channels in nature's great keep forty head of stock by buying some afteries, that the life blood of commerce

We are not enemies of railroads, navigayear he contemplates fitting up both wings ble and irr gating canals, or of any corporof his cow barn, making two siles twenty- ation that will advance our industrial in-

In our noble Order there is to commun-We are opposed to such spirit and management of any corporation or enterprise as tends to oppress the people, and rob After many years of practical experience them of their just profits. We are not en-Edmund Hersey, a well known Massachu-setts cultivator, has arrived at the follow of monopolies. We long to see the antagonism between capital and labor removed by common consent, and by an enlightened week or ten days earlier than those which statesmanship worthy of the nineteenth century. We are opposed to excessive high 2. Small, whole potatoes will produce salaries, rates of interest, and exhorbitant results as good, if not better, than large per cent profits in trade. They greatly in 3. The seed end is the better one to lant, because it starts with more vives desire only self-protection, and the protection of every tous interest of our land by

and legitimate profits. EDUCATION. We shall advocate the cause of educathose with eyes advanced just enough to tion among ourselves and for our children, by all just means within our power. We 6. The form cannot, as a rule, be especially advecate for our agricultural and changed by planting any particular form. industrial colleges, that practical agricul-7. Two distinct varieties won't mix in ture, domestic science, and all the arts which adorn the home, be taught in their

courses of study. THE GRANGE NOT PARTISAN. 5. We emphatically and sincerely assert

the oft repeated truth taught in our organic The simple prescription here given has laws that the Grange-National, State or the indersement of a prominent authority | Subordinate-is not a political or party orin such matters: "If you have a horse ganization. No Grange, if true to its obligations, can discuss political or religious questions, n a call political conventions, nor partied. Suspend a sack filled with hay nominate candidates, nor even discuss their merits in its n_eetings.

Yet the principles we teach underlie all sure to have things arranged so that the true politics, all true statesmanship, and if properly carried out, will tend to purity be victorious every time, and in the end the whole political stmosphere of our counthe horse will absolutely refuse to kick try, for we seek the greatest good to all. By resolution of the National Grange, Boston, Mass., 1885, "the greatest number erased and the word "ALL" substituted

We always bear in mind that no one by becoming a Patron of Husbandry gives up that inalienable right and duty which belongs to every American citizen, to take a proper interest in the politics of his coun-

On the contrary, it is right for every member to do all in his power legitimately to influence for good the action of any polifical party to which he belongs. It is his duty to do all he can in his own party to put down bribery, corruption and trickery to see that none but competent, faithful and honest men, who will unflinchingly stand by our industrial interests, are neminated for all positions of trust; and to have carried out the principle which should characterize every Patron, that the office should neek the man, and not the man the

We acknowledge the broad principle that difference of opinion is no crime, and hold that "progress toward truth is made by difference of opinion," while the fault

We desire a proper equality, equity and fairness; protection for the weak, restraint upon the strong; in short, justly distributed burdens, and justly distributed power These are American ideas, the very essence of American independence, and to advocate the contrary is unworthy of the sons and daughters of an American re- 202 FR' NKLIN STREET, CHICAGO-

We cherish the belief that sectionalism s, and of right should be, dead and buried with the past. Our work is for the present and the future. In our agricultural broth-erhood and its purp-ses, we shall recognize no North, no South, no East, no West. It is reserved by every Patron, as the right of a freeman, to affiliate with any

party that will best carry out his prin-

OUTSIDE CO OPERATION. 6 Ours being peculiarly a tarmers' institution, we cannot admit all to our ranks. Many are excluded by the nature of the organization, not because they are professional men, or artisans, or laborers, but because they have not a sufficient direct interest in tilling the soil, or may have some interest in conflict with our purposes. But we appeal to all good citizens for their cor-dial co-operation to assist in our efforts toward reform, that we may eventually remove from our midst the last vestige of tyranny and corruption.

We hall the general desire for fraternal har nony, equitable compromises and earnand womanhood among ourselves. To en- est co-operation, as an omen of our future

> CONCLUSION. 7. It shall be an abiding principle with us to relieve any of our oppressed and sufcommand.

> Last, but not least, we preclaim it smong our purposes to inculcate a proper appreci-ation of the abilities and sphere of woman, as is indicated by admitting her to mem-

we here pledge ourselves to faithful and our forefuthers.



Mew Advertisements.



Elonest Help for Men. Pay No More Money to Quacks.

I will send you a NEW Sall.

30 years' experimenting, which Never Fails and
Costs non Absolutely Nothing until cured.
Address,

Box 4-3, Milwanker, Wisconsin.



LADIES! Le Your Own Dyeing, at Home, with

PEERLESS DYES

They will bye everything. They are sold everywhere, Price I Occasionated 40 colors. They have no equal for Strength, Brightness, Annualt in Package, or for Fastness of Color, or Non-tading Qualities. They do

C. M. FORBES, Druggist,

The most Powerful Healing

Ointment ever Discovered. Henry's Carbolic Salve cures

Henry's Carbolic Salve allays Burns. Henry's Carbolic Salve heals Henry's Carbolic Salve cures Henry's Carbolic Salve heals

Ask for Henry's-Take No Other. BEWARE OF COUNTERFEITS. 41

Price 25 cts., mail prepaid 30 cts. JOHN F. HENRY & CO., New York. Write for Illuminated Book.

Some by C. M. 1 ORBES.



The ONLY CORSET made that can be returned by its purchaser after PHREE WEEK'S PERFECTLY SATISFACTORY

orr respect, and its price refunded by seller in a variety of styles and prices. Sold by first dealers everywhere. Hewere of worthless im-ns. None genuine without Ball's name on box CHICAGO CORSET CO.,





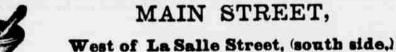
FURNITURE.

The oldest House, The largest Stock, The Best Variety

Of goods in this line in La Salle county.

35 and 37 La Salle Street.

M. KNEUSSL'S DRUG STORE,



OTTAWA, ILLINOIS.

DRUGS AND CHEMICALS.

All the new and popular Paten Medicines, Extrasts and Spices for culinary

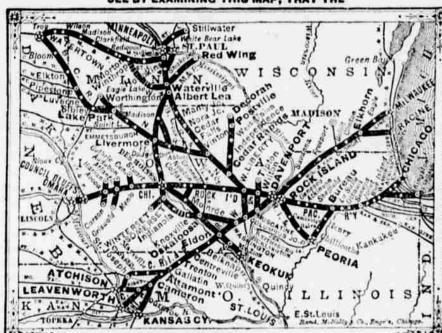
Perfumery, Brushes, and Fancy Articles for the Toilet.

Paints, Oils, Varnishes, Window G'ass, &c.

Particular Attention given to the Compounding of Physicians Prescriptions



WHO IS UNACQUAINTED WITH THE GEOGRAPHY OF THIS COUNTRY, WILL SEE BY EXAMINING THIS MAP, THAT THE



CHICAGO, ROCK ISLAND & PACIFIC R'Y

By reason of its central position, close relation to principal lines East of Chicago and continuous lines at terminal points West, Northwest and Southwest—is the only true middle-link in that transcontinental system which invites and facilitates travel and traffic in either direction between the Atlantic and Pacific.

The Rock Island main line and branches include Chicago, Joliet, Ottawa, La Salle, Peoria, Geneseo, Moline and Rock Island, in Illinois; Davenport, Muscatine, Washington, Fairfield, Ottumwa, Oskaloosa, West Liberty, Iowa City, Des Moines, Indianola, Winterset, Atlantic, Knoxville, Audubon, Harlan, Guthris Centre and Council Bluffs, is Iowa; Gallatin, Trenton, St. Joseph, Cameron and Kansas City, in Missouri; Leavenworth and Atchison, in Kansas; Albert Lea, Minneapolis and St. Paul, in Minnesota; Watertown in Dakota, and hundreds of intermediate cities, towns and villages.

THE CREAT ROCK ISLAND ROUTE

Guarantees Speed, Comfort and Safety to those who travel over it. Its roadbed is thoroughly ballasted. Its track is of heavy steel. Its bridges are solid structures of stone and iron. Its rolling stock is perfect as human skill can make it. It has all the safety appliances that mechanical genius has invented and experience proved valuable. Its practical operation is conservative and methodical—its discipline strict and exacting. The luxury of its passenger accommodations is unequaled in the West-unsurpassed in the world.

ALL EXPRESS TRAINS between Chicago and the Missouri River consist of comfortable DAY COACHES, magnificent PULIMAN PALACE PARLOR and SLEEPING CARS, elegant DINING CARS providing excellent meals, and—between Chicago, St. Joseph, Atchison and Kansas City—restful RECLINING CHAIR CARS.

THE FAMOUS ALBERT LEA ROUTE

Is the direct, favorite line between Chicago and Minneapolis and St. Paul. Over this route solid Fast Express Train, run daily to the summer resorts, picturesque localities and hunting and fishing grounds of Iswa and Minnesota. The rich wheat fields and grazing lands of inferior Dakota are reached via Watertown. A short desirable route, via Seneca and Kankakee, offers superior inducements to travelers between Cincinnati, Indianapolis, Lafayette and Council Bluffs, St. Joseph, Atchison, Leavenworth, Kansas City, Minneapolis, St. Paul and intermediate points.

All classes of patrons, especially families, ladies and children, receive from officials and employes of Rock Island trains protection, respectful courtesy and kindly attention.

kindly attention.

For Tickets, Maps, Folders—obtainable at all principal Ticket Offices in the United States and Canada—or any desired information, address, E. A. HOLBROOK. E. ST. JOHN. R. R. CABLE. Gra'l Tht. & Pass. Agt, Chicago

Ass't Gen'l M'g'r, Chicago. Pres't & Gen'l M'g'r, Chicago.